

(FILE 'USPAT' ENTERED AT 14:55:48 ON 10 MAR 93)

L1 72 S GUARD SIGNAL
L2 617 S TRANSITION DETECTOR
L3 0 S L1 AND SIGNAL SAMPLES
L4 16 S L2 AND SIGNAL SAMPLES
L5 4 S L4 AND EQUIVALENT

=> d 15 1-4

1. 4,777,385, Oct. 11, 1988, Signal transient improvement circuit;
Werner N. Hartmeier, 307/263, 517; 328/55, 109
2. 4,041,456, Aug. 9, 1977, Method for verifying the denomination of
currency; David M. Ott, et al., 382/7; 209/534; 382/30
3. 3,882,540, May 6, 1975, Readback circuits for digital signal
recorders; Hjalmar H. Ottesen, 360/39
4. 3,727,136, Apr. 10, 1973, AUTOMATIC EQUALIZER FOR PHASE-MODULATION
DATA TRANSMISSION SYSTEMS; Henry Charles Schroeder, et al., 375/15;
333/18, 28R; 375/83

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10. 3,681,530, Aug. 1, 1972, METHOD AND APPARATUS FOR SIGNAL BANDWIDTH COMPRESSION UTILIZING THE FOURIER TRANSFORM OF THE LOGARITHM OF THE FREQUENCY SPECTRUM MAGNITUDE; Harold J. Manley, et al., 395/2; 381/32, 41

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L1 324342 S (REGISTER OR STORAGE)

L2 1652 S L1 AND SIGNAL SAMPLES
L3 10 S L2 AND SAMPLE COMPARISON

=> s 13 and encode?
42638 ENCODE?

L4 3 L3 AND ENCODE?

=> d 14 1-3

1. 4,282,411, Aug. 4, 1981, Residual echo suppressor for echo canceller; Robert C. Stewart, 379/406

2. 4,150,368, Apr. 17, 1979, Signal coding for compressed pulse code modulation system; Ramon C. W. Chea, Jr., 341/108, 138 [IMAGE AVAILABLE]

3. 3,681,530, Aug. 1, 1972, METHOD AND APPARATUS FOR SIGNAL BANDWIDTH COMPRESSION UTILIZING THE FOURIER TRANSFORM OF THE LOGARITHM OF THE FREQUENCY SPECTRUM MAGNITUDE; Harold J. Manley, et al., 395/2; 381/32, 41

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=> s (register or storage)
    93915 REGISTER
    269888 STORAGE
L1    324342 (REGISTER OR STORAGE)

=> s l1 and signal samples
    376074 SIGNAL
    136769 SAMPLES
    2357 SIGNAL SAMPLES
        (SIGNAL(W)SAMPLES)
L2    1652 L1 AND SIGNAL SAMPLES

=> s l2 and sample comparison
    188987 SAMPLE
    237454 COMPARISON
        103 SAMPLE COMPARISON
            (SAMPLE(W)COMPARISON)
L3    10 L2 AND SAMPLE COMPARISON

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=> d 13 1-10

1. 5,053,983, Oct. 1, 1991, Filter system having an adaptive control for updating filter samples; Gilbert P. Hyatt, 364/724.03, 724.04, 724.18 [IMAGE AVAILABLE]
2. 5,022,074, Jun. 4, 1991, Digital echo suppressor; David C. Nicholas, 379/407; 370/32.1; 379/406 [IMAGE AVAILABLE]
3. 4,602,276, Jul. 22, 1986, Digital signal level overload system; Russell T. Fling, et al., 358/27
4. 4,491,930, Jan. 1, 1985, Memory system using filterable signals; Gilbert P. Hyatt, 364/602, 726
5. 4,282,411, Aug. 4, 1981, Residual echo suppressor for echo canceller; Robert C. Stewart, 379/406
6. 4,267,593, May 12, 1981, Method and means for digital conferencing; John F. Regan, et al., 370/62
7. 4,246,652, Jan. 20, 1981, Seismic source signed evaluation apparatus; Tawassul A. Khan, et al., 367/42; 364/421; 367/47 [IMAGE AVAILABLE]
8. 4,209,843, Jun. 24, 1980, Method and apparatus for signal enhancement with improved digital filtering; Gilbert P. Hyatt, 364/728.03, 517 [IMAGE AVAILABLE]
9. 4,150,368, Apr. 17, 1979, Signal coding for compressed pulse code modulation system; Ramon C. W. Chea, Jr., 341/108, 138 [IMAGE AVAILABLE]

L1

4 "WHITTINGTON, CHARLES L"/IN

=> d 11 1-4

1. 5,123,014, Jun. 16, 1992, Data link with an imbedded channel; John C. Federkins, et al., 370/110.1; 379/59, 60; 455/33.1 [IMAGE AVAILABLE]

2. 4,918,572, Apr. 17, 1990, Modular electronic package; Carl K. Tarver, et al., 361/736, 683; 439/377, 928; D14/100, 109 [IMAGE AVAILABLE]

3. 4,719,567, Jan. 12, 1988, Method and apparatus for limiting bus utilization; Charles L. Whittington, et al., 395/325; 364/240, 240.5, 242.6, 242.92, 264, 264.4, DIG.1 [IMAGE AVAILABLE]

4. 4,473,878, Sep. 25, 1984, Memory management unit; John E. Zolnowsky, et al., 395/400; 364/229, 229.2, 238.4, 244, 244.6, 246, 246.3, 247, 247.4, 247.8, 253, 253.1, 255.1, 255.5, 256.3, 256.5, 259, 259.2, 259.7, 263, DIG.1 [IMAGE AVAILABLE]

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US PAT NO: 4,719,567 [IMAGE AVAILABLE]

L1: 3 of 4

ABSTRACT:

A bus master is prevented from utilizing a communication bus during a current sample interval if the utilization rate of the communication bus during the immediately preceeding sample interval exceeded a selected limit.

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